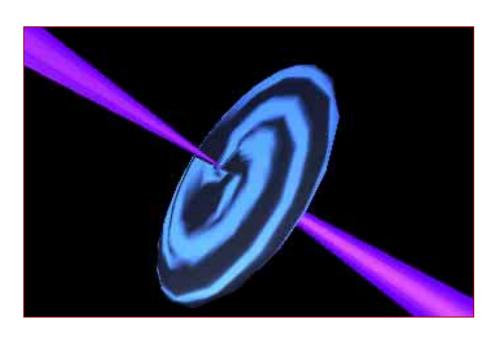


E/PO Program

Education and Public Outreach Goal



We will utilize the observations and scientific discoveries of the GLAST mission to improve the understanding and utilization of science and mathematics concepts for grades 9-12.



LAT E/PO Program

- Web-based materials
 - Space Mysteries (2004-2005)
 - GLAST Outreach Web Site (ongoing)
- Printed materials
 - TOPS Learning Systems (2002-2004)
 - Teacher's activity booklets and posters (bi-yearly)
- Educator training
 - New teacher's workshops yearly at NSTA, NCTM
 - GLAST Ambassador Master Teachers (2002-2005)



LAT E/PO Program

Informal Education

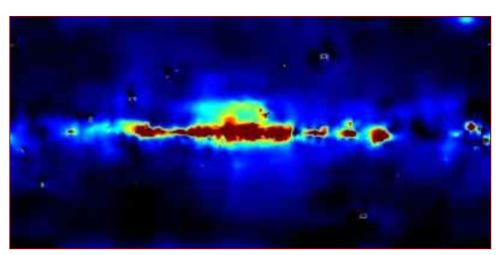
- NASA Quest Space Scientists Online Web Chats
- SLAC Virtual Visitor's Center γ -ray Exhibit (2004)

Evaluation and Assessment

- Space Mysteries has team of high school teachers for front-end assessment
- Formative and summative evaluation of entire program will be performed by WestEd
- Swift evaluation also being done by WestEd (subcontract negotiations in progress)



Space Mysteries



- Funded by NASA Learners grant to SSU for 3 modules (to be released during 2001-2)
- Swift module planned for 2003 release
- Two modules planned for GLAST (2004-5)
- Developed with Videodiscovery, Inc.



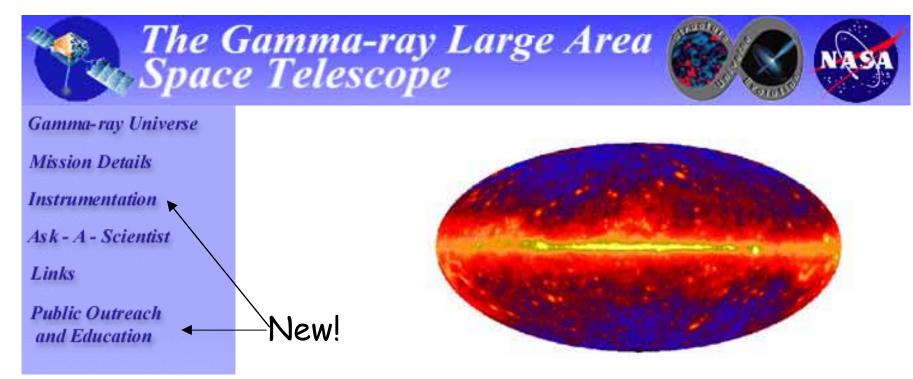
Ambassadors Program

10 educators

- Selected in national competition in 2002
- Work with GLAST Science Team
- Develop workshops and curriculum materials
- Must have own dissemination plan
- Attend GLAST launch in 2005
- Help staff exhibition booth at educator conferences
- Paid modest annual stipend, plus travel



Outreach Web Site

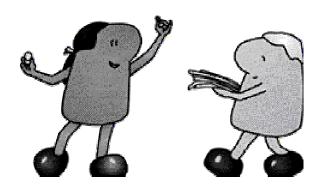


IDS section, new VRML model in progress

http://www-glast.sonoma.edu



TOPS Learning Systems



These are fun-loving folk of no particular age, race, political affiliation, or size. Because they are clever and brave, can change sizes and defy gravity, we let them demonstrate the "how to's" in all the books we publish. Their purpose in life is to help young people achieve success one step at a time.

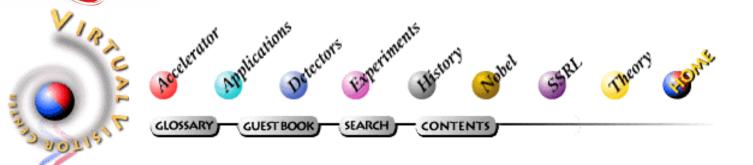




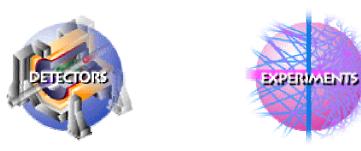
http://www.topscience.org/







EXPLORE THE VIRTUAL VISITOR CENTER



http://www2.slac.stanford.edu/vvc/home.html

GLAST



NASA QuestChats



http://quest.arc.nasa.gov/ltc/

A QuestChat is an opportunity for students and the general public to meet and ask questions of scientific experts using the Internet. From their own desktop, people can type comments and questions into a "chat room" and receive live responses.

First QuestChat is scheduled for 9/27/00. More GLAST SWG volunteers needed!

Chats will be held monthly during the academic year.

Monthly chats shared between GLAST and Swift



Dissemination Plan

- Educator workshops and exhibits at NSTA, NCTM, CSTA, NTTI, etc.
- GLAST E/PO Web site
- NASA OSS Forums and Broker/Facilitators
- NASA CORE
- NASA Science/Education Gateway
- NASA Quest Web site
- Videodiscovery Web site, marketing, and catalog
- TOPS Web site, marketing, and catalog

Dissemination measured by WestEd



Exhibit Booth

- Ordered from Joan
 Carol Design Group
- Ready for HEAD in November 2000
- Mirror image of Swift booth
- When in adjacent locations, booth personnel can be shared
- Shared with PR





Project E/PO plan

- Plan for project E/PO sent to interested parties on August 18
- Includes major role for GSFC personnel
- 5 new proposed elements:
 - •1-2 hour PBS Special with Tom Lucas
 - Maryland Science Center exhibit
 - Planetarium show
 - GLAST video
 - Telescope Network
- Adds educational workshops at GSFC, SLAC, Texas A&M, and MSFC



PBS TV Special

•1-2 hour PBS Special with Tom Lucas Productions to air in 2004

Lucas committed to raising \$500K through PBS

or Nova

GLAST adds \$250K

- PBS dissemination = high leverage
- My personal top priority

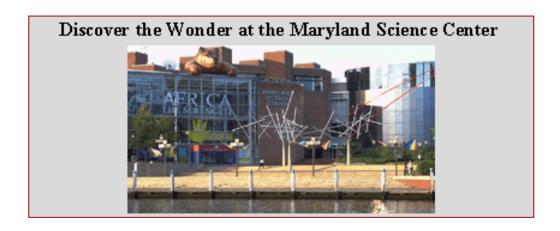


Voyage to the Milky Way



Maryland Science Center

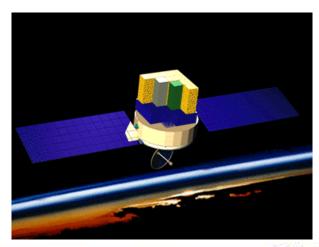
- 250 square foot exhibit in 2003/4, upgraded in 2005/6 to 500 square feet
- •@\$300/square foot =\$150K to MSC
- Planetarium show in 2004/5, done with MSC for \$75K, distributed through International Planetarium Society along with colorful brochure





Video

- Similar to Swift video
- ~ 5 minutes
- Distributable on CD-ROM
- Explains high energy gamma-ray sky
- Can be used by GLAST public speakers
- Can be part of museum exhibit
- \$60K production costs
- Completed by 2002
- To be done by GSFC





Telescope Network

- Blazar and GRB observations
- High School students using robotic telescopes through NSF funded Hands-On Universe project
- Amateur astronomers involved through MSFC GBM and AAVSO
- GSFC GCN used to coordinate GRB positions and times with networked observers
- Minimal GSFC personnel costs (\$70K)
- Can start with HETE and Swift, be in place for GLAST



Educational Workshops



NBSP at SSU July 2000

- GSFC workshops in 2001/03/05
- MSFC/AAVSO in 2002/04
- Texas A&M Kingsville (HSI) in 2004
- SLAC will train Ambassadors in 2002/04 (SSU trains Ambassadors in other years)
- @ \$20K per workshop*8 = \$160K



Budget Bottom Line

- Approved GLAST LAT Program Budget:
- \$1.27M (includes \$565K in sub-contracts)
- Requested GLAST Project Augmentation:
- \$2.33M (\$700K in subcontracts)
- Total E/PO Program: \$3.6M (1.9% of the \$191M total project budget excluding launch)
- Project is willing to support a total E/PO program of \$3.1M (real year dollars)
- This does not allow all new elements
- SWG input requested on priorities for cuts